# IOWA STORED ENERGY PLANT Status Report

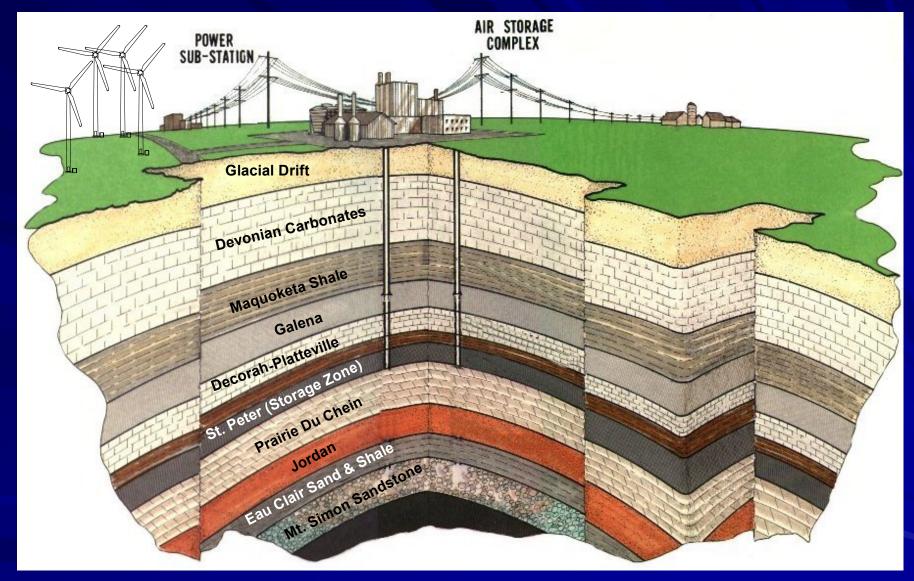
California Energy Commission
February 24, 2005
Kent Holst, Development Director

## Origins of ISEP

■ 136 Municipal Electric Utilities in Iowa.

Study of municipal resource needs.

Compressed Air Energy System (CAES) and Wind (857MW!)



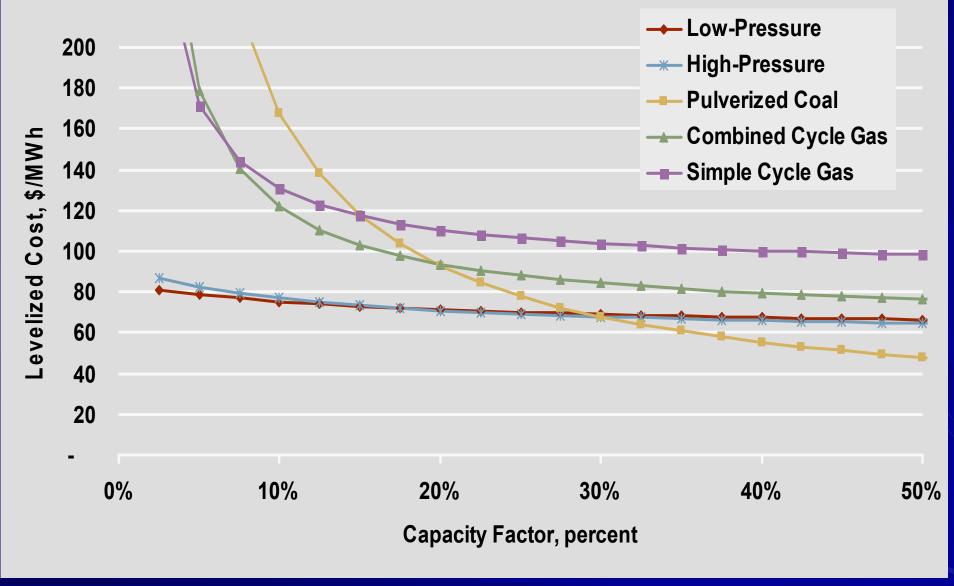
Compressed Air Energy Storage at Iowa Site

## Validating Studies

- Burns & McDonnell Conceptual Design and Cost Estimate.
- Independent Cost Estimate by ES & GS.
- Storage rights analysis by Meridian Energy Corp.
- Independent review of geologic data by Fairchild & Wells.
- Black & Veatch Economic Analysis

#### What have we learned?

- 1. \$870/KW for CAES, \$1150/KW for wind.
- 2. We have issues with leases.
- 3. Geology is not as favorable as 1<sup>st</sup> presented.
- 4. The economics look good.



Comparison of Levelized Cost of Production Between Generation Technologies.

## How has it all been paid for?

Hundreds of hours have been donated.

- \$750,000 has been invested by Municipals
- US DOE Energy Storage Program Funding:
  - FY 2004 \$136,000
  - FY 2005 \$1,200,000
  - FY 2006 asking \$2,500,000

# Questions?